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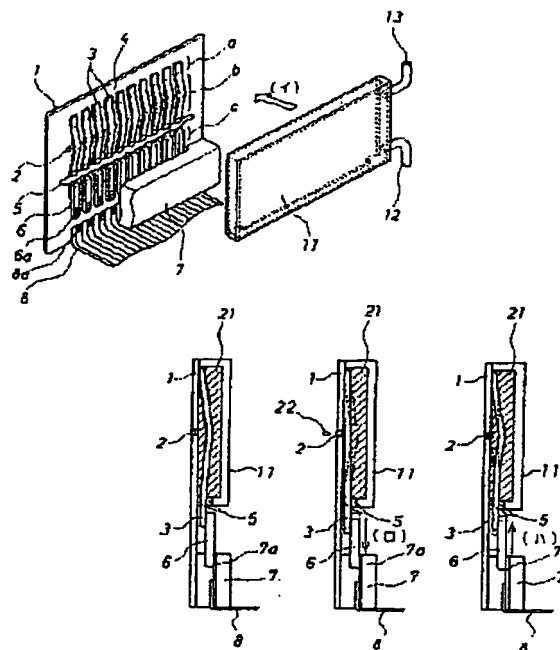
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TITLE : INK JET HEAD



ABSTRACT : PURPOSE: To maintain a fine space between a nozzle plate and pressure generating means accurately so as to make it possible to use a conductive ink by filling the periphery of a pressing plate with ink, deforming the pressing plate by extension of a piezoelectric device, changing the volume in an area surrounded by a nozzle plate and the pressing plate, and discharging ink drips from the nozzle.

CONSTITUTION: A pressing plate 3 whose periphery is filled with an ink 21 is separated from a nozzle plate 1. An electric field is applied to a piezoelectric device 6 through a flexible substrate 8. The piezoelectric device 6 whose one end is fixed to a base material 7 contracts in the direction of an arrow B. Due to the contraction, the pressing plate 3 is also pulled in the direction of the arrow B so as to approach to the nozzle plate 1. The piezoelectric device 6 has an excellent responsiveness so that an operation is carried out instantaneously. The ink 21 is discharged in ink drips 22 from a nozzle 2 by the operation of the pressing plate 3. When the electric field of the piezoelectric device 6 is released, the piezoelectric device 6 extends in the direction of an arrow C and the pressing plate 3 deforms so as to separate from the nozzle plate 1. The ink 21 is supplied to the gap from a slit 4.

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